

AMENDMENTS TO THE CLAIMS

Please cancel Claims 35-38 and 44-116; amend Claims 1, 9, 18, 23, 29 and 39; and add new Claims 117-128 as follows.

LISTING OF CLAIMS

1. (currently amended) A system for communicating information related to the position of a mobile station within a wireless communication infrastructure, comprising a data server capable of communicating with the wireless communication infrastructure, wherein the mobile station and the data server communicate via the wireless communication infrastructure using formatted messages ~~representing~~ the formatted messages containing a difference between previous and current wireless communication infrastructure state information related to the position of the mobile station within the service area of the wireless communication infrastructure.

2. (original) The system of Claim 1, wherein the formatted messages are short message service (SMS) messages.

3. (original) The system of Claim 1, wherein the wireless communication infrastructure uses code division multiple access.

4. (original) The system of Claim 1, wherein the mobile station is a cellular telephone.

5. (original) The system of Claim 1, wherein the mobile station is a PCS handset.

6. (original) The system of Claim 1, wherein the state information related to the position of the mobile station includes a base station identification and sector pseudo-noise offset.

7. (original) The system of Claim 1, wherein the state information is in the form of a standard string format.

8. (original) The system of Claim 7, wherein the more critical information is listed first in the string.

9. (currently amended) A wireless communication system comprising:
a data server;
a base station which communicates with the data server; and
a mobile station which communicates with the base station, the mobile station transmitting formatted messages to the base station for further communication to the data server, wherein the formatted message includes [[the]] a difference between previous and current mobile station position information.

10. (original) The wireless communication system of Claim 9, wherein the wireless communication system uses the code division multiple access format.

11. (original) The wireless communication system of Claim 9, wherein the formatted messages are short message service (SMS) messages.

12. (original) The wireless communication system of Claim 9, wherein the formatted messages are browser calls.

13. (original) The wireless communication system of Claim 9, wherein the mobile station communicates via the base station the formatted messages to an application or service on the data server.

14. (original) The wireless communication system of Claim 13, wherein the application or service on the data server is the Wireless Markup Language Script (WMLScript).

15. (original) The wireless communication system of Claim 14, wherein the communication to the Wireless Markup Language Script is via a Wireless Application Protocol Wireless Telephony Application Interface.

16. (original) The wireless communication system of Claim 9, wherein the formatted message is a text string.

17. (original) The wireless communication system of Claim 9, wherein the mobile station position information is derived from base station identification.

18. (currently amended) A method of communicating mobile station position information in a wireless communication system comprising:

determining the position information of the mobile station;

creating a formatted message including ~~[[the]]~~ a difference between previous and current position information; and

transmitting the formatted message to a data server via the wireless communication system.

19. (original) The method of Claim 18, further comprising detecting the base station identification information to determine the position information.

20. (original) The method of Claim 18, further comprising placing the more important information at the beginning of the formatted message.

21. (original) The method of Claim 18, further comprising communicating within the wireless communication system using code division multiple access standard.

22. (original) The method of Claim 18, further comprising forming the message in the short message service (SMS) format.

23. (currently amended) A mobile station for use in a wireless communication system comprising:

a position locator which defines the geographic position of the mobile station; and

a message formatter which creates a message containing [[the]] a difference between previous and current geographic position information of the mobile station.

24. (original) The mobile station of Claim 23, wherein the mobile station communicates the message to a base station.

25. (original) The mobile station of Claim 23, wherein the mobile station operates using the code division multiple access standard.

26. (original) The mobile station of Claim 23, wherein the message formatter creates a short message service (SMS) message.

27. (original) The mobile station of Claim 23, wherein the mobile station is a cellular handset.

28. (original) The mobile station of Claim 23, wherein the mobile station is a PCS handset.

29. (currently amended) A data server for use in a wireless communication system comprising:

means for communicating with a mobile station, wherein the data server receives a formatted message from the mobile station, the formatted message including information defining the position of the mobile station in the wireless communication system; and

applications which extract ~~[[the]]~~ a difference between previous and current position information from the formatted message.

30. (original) The data server of Claim 29, wherein the data server communicates with a base station.

31. (original) The data server of Claim 30, wherein the base station communicates with the mobile station.

32. (original) The data server of Claim 29, wherein the position information is used to determine appropriate data to transmit back to the mobile station.

33. (original) The data server of Claim 29, further comprising a network database correlated with position information.

34. (original) The data server of Claim 29, wherein the means for communicating uses the code division multiple access format.

35.-38. (cancelled)

39. (currently amended) A method of communicating a position of a mobile station in a wireless communication system comprising the steps of:

generating a message containing a difference between previous and current position information of the mobile station;

communicating the message via a wireless communication means; and
receiving the message at a data server.

40. (original) The method of Claim 39, further comprising detecting base station identification information to determine the position information.

41. (original) The method of Claim 39, further comprising formatting the message so the critical information is at the beginning of the formatted message.

42. (original) The method of Claim 39, further comprising the communication means using a code division multiple access standard.

43. (original) The method of Claim 39, further comprising forming the message in the short message service (SMS) format.

44.-116. (cancelled)

117. (new) The system according to Claim 1, wherein the difference between the previous and the current wireless communication infrastructure state information is related to the present position of the mobile station.

118. (new) The system according to Claim 1, wherein the difference between the previous and the current wireless communication infrastructure state information is determined from the previous wireless communication infrastructure state information cached in the mobile station.

119. (new) The wireless communication system according to Claim 9, wherein the difference between the previous and the current mobile station position information is related to the present position of the mobile station.

120. (new) The wireless communication system according to Claim 9, wherein the difference between the previous and the current mobile station position information is determined from the previous mobile station position information cached in the mobile station.

121. (new) The method according to Claim 18, wherein the difference between the previous and the current position information is related to the present position of the mobile station.

122. (new) The method according to Claim 18, wherein the difference between the previous and the current position information is determined from the previous position information cached in the mobile station.

123. (new) The mobile station according to Claim 23, wherein the difference between the previous and the current geographic position information is related to the present position of the mobile station.

124. (new) The mobile station according to Claim 23, wherein the difference between the previous and the current geographic position information is determined from the previous geographic position information cached in the mobile station.

125. (new) The data server according to Claim 29, wherein the difference between the previous and the current position information is related to the present position of the mobile station.

126. (new) The data server according to Claim 29, wherein the difference between the previous and the current position information is determined from the previous position information cached in the mobile station.

127. (new) The method according to Claim 39, wherein the difference between the previous and the current position information is related to the present position of the mobile station.

128. (new) The method according to Claim 39, wherein the difference between the previous and the current position information is determined from the previous position information cached in the mobile station.